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August 2019 Edition

August Meeting Minutes

Russ Ramirez, K0WFS, called the meeting to order at 1 PM. 14 were in attendance.

- Introductions were made around the table.
- The June 2019 Minutes were approved.
- Paul Bushouse, N0TYE, reports there is \$2442.70 in the checking account.

Old Business:

Field Day reports were made by Bob, WB0POQ, Phil, K0CD & Russ, K0WFS.

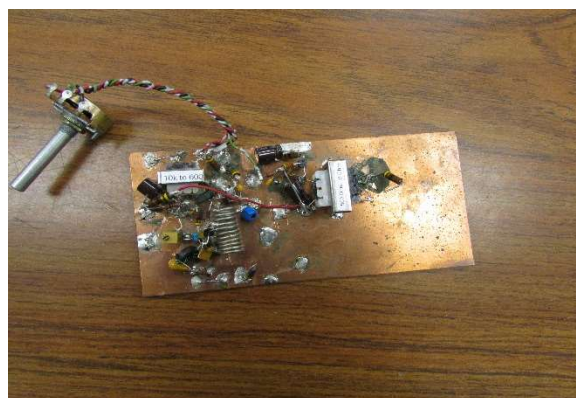
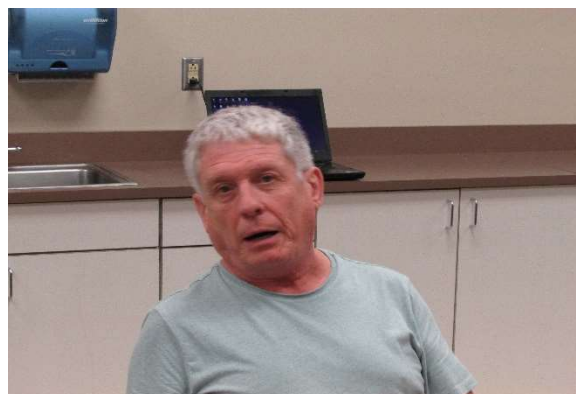
John, KJ0P, reminded the group that the Minnetonka club meets the second Monday of each month. All were welcome.

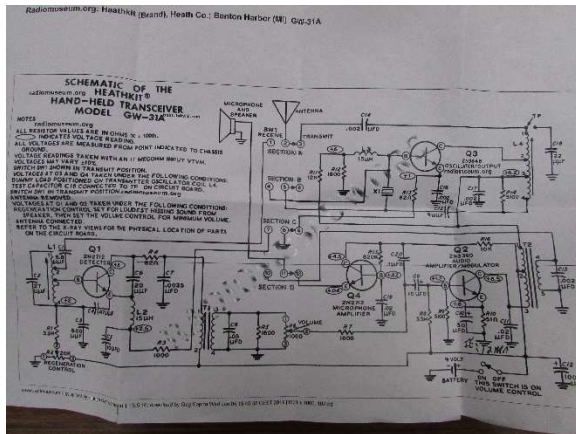
New Business:

No new business.

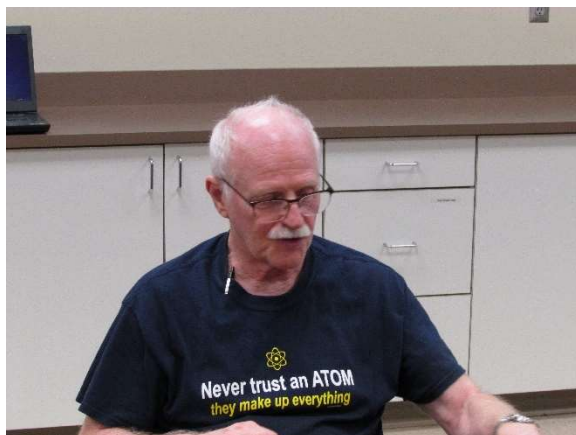
Show and Tell:

Bob Liesenfeld, WB0POQ, brought in a 6 meter Super Regenerative receiver. This works in the AM mode. He is working on a 6 meter AM transmitter and hopes to combine the two into a 6 meter walkie talkie. Bob also brought a schematic of an older Heathkit 6 meter AM transceiver that used a Super Regenerative receiver.

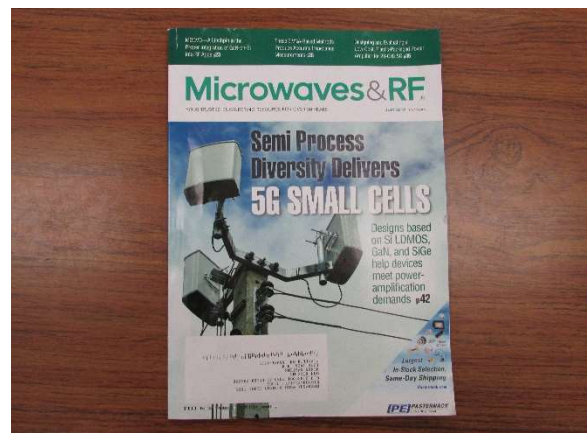




Bede Willenbring, WA0QNV, brought in some power MOSFETs for anyone in the group that might be able to use them.

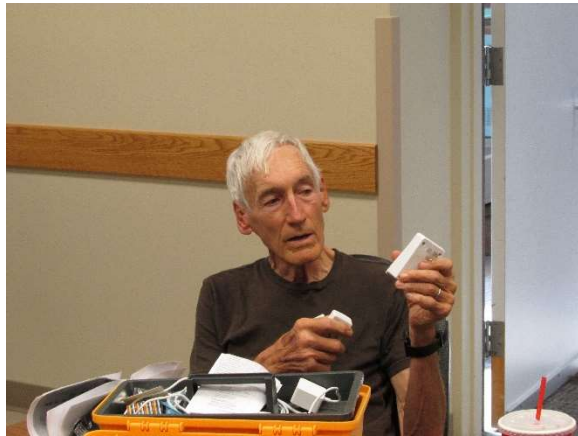


Dan Blek, N0HAM, brought in some fluorescent tape he has found useful. He also brought a copy of Microwaves and RF magazine.



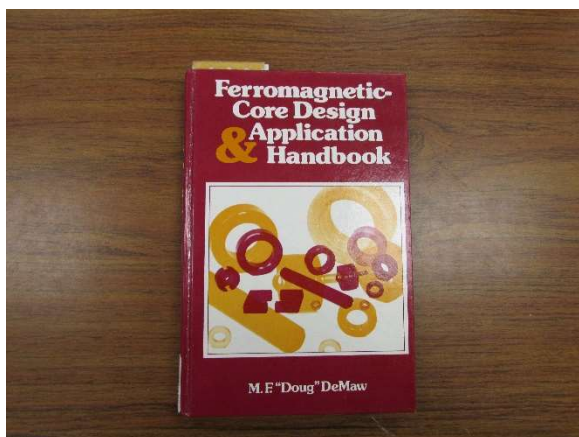
John Krawczak, KJ0P brought in a number of interesting items. Among them were an original PNP Germanium transistor, RF controlled remote power outlet operating on 316 MHz, an older grid dip meter, DVM and a Raspberry Pi 4. John went on to discuss some of the accessories needed with the Pi 4. He

also demonstrated a display he had obtained for it.



Mike Burk, KD0JXE, brought in a copy of Doug DeMaw's book: *Ferromagnetic Core Design & Application*. He has found it to be quite useful and well written. Mike also brought in a recently built jig that allows him to select varying amounts of inductance. He explained some of the challenges of building it. He found, for example, that the switches each added a bit of inductance to the total. Additionally, he brought in a RF power meter and demonstrated its use. He obtained this from:

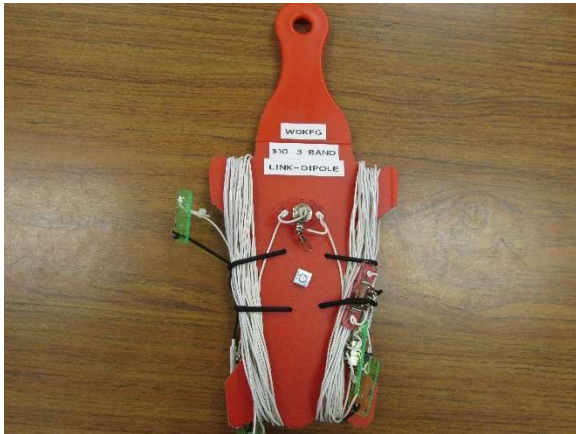
https://www.banggood.com/Digital-Radio-Frequency-Power-Meter-7516dBm-Power-Attenuation-Can-Be-Set-p-1221705.html?rmmds=myorder&cur_ware_house=CN



Phil Schweitzer, K0CD, showed us his CQ 2018 World Wide DX CW Contest award. Phil also brought in a YouKit antenna analyzer and demonstrated its operation.

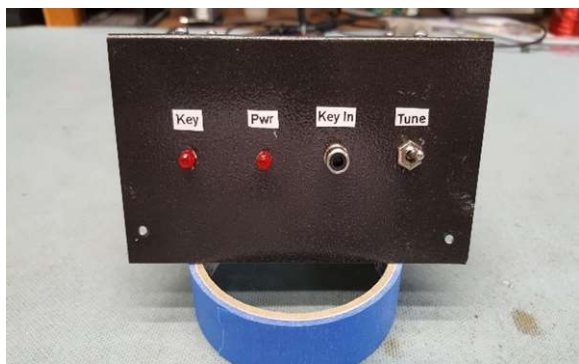


Richard Hunt, W0KFG, showed us some of his portable operating gear. He fashioned a 3 band antenna using parts he found at the Dollar Store. He also showed us a vertical antenna he made from a Chinese fishing pole and 22 ga wire. It extends to 17 feet and is secured in the ground with a fishing pole holder from Fleet Farm. The portable station itself was nicely arranged on a clipboard and can operate 20/30/40 meters.



Steve Ulrich, NW0C, brought in an AC voltmeter he recently constructed. It has 4 ranges: 10 mv, 100 mv, 1 V & 10 V. Steve described some of the problems he had with the OP amps he was trying to use. He also brought in an antenna switch built from an article in a recent QST. He reports that it works well.





August Presentation

By: *Bob Liesenfeld/WB0POQ*

Bob spoke on the Super Regenerative Detector also known as the Rush Box.

First Bob explained the difference between a regenerative receiver and a super regenerative. He then went on to show how the super regenerative circuit works and why there is a characteristic hiss coming from the speakers when no signal is being received. Bob also gave a little history of the device which was invented by Armstrong. One of Bob's example circuits was an older Heathkit 10 meter walkie talkie.

This was a very informative presentation and tied in nicely with the 6 meter super regenerative receiver he brought in.

Club Officers:

President: Russ Ramirez/K0WFS
Vice Pres: Jeremy Mooney/KC0LDI
Secretary: Steve Ulrich/NW0C
Treasurer: Paul Bushouse/N0TYE
At Large: Bob Liesenfeld/WB0POQ

russ.ramirez@gmail.com
kc0ldi@qux.net
ulrichs@comcast.net
p-bushouse@bethel.edu
wb0poq@visi.com